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Piezoelectric ceramic material and piezoelectric ceramic sintered body obtained using the same
I Yoshizawa, K Horikawa... - US Patent 6,299,791, 2001 - Google Patents
... contain- 40 ing at least one of 0.005 to 0.040% by weight of **SiO2** and 0.005 ...
Narrow-band niters of conventional **Pb[(Mn1/3Nb2/3)**, Zr, Ti]**O3** based piezoelectric ...
Cited by 1 - Related articles - Web Search - All 2 versions

Piezoelectric ceramic composition and piezoelectric element
R Tanimoto, Y Tsuji, M Kimura, H Takagi... - US Patent App. 09/933,410, 2001 - Google Patents
... to claim 1 and represented by the compositional formula Pba{(**Mn1/3Nb2/3**)xZr Tiz}**O3**+b wt ... in which the elements constituting A is a combination of **Pb** and at ...
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Piezoelectric ceramic material, electronic part using the ceramic
M Kida, M Katsube - US Patent 6,511,763, 2003 - Google Patents
... 2)**O3** and Nd(Mg1/2Tilx 2)**O3**; and compounds ... PbO, TiO2, ZrO2, MnCO3, Nb2O5, Cr2O3, **SiO2**, and A12O3 ... such that a piezoelectric ceramic comprising **Pb**(**Mn1/3Nb2/3**)0 10 ...
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PORCELAIN COMPOSITION
T Mori - 1990 - freepatentsonline.com
... 0.5-5.0wt.% **SiO2** fibers are incorporated into a four-component porcelain compsn. represented by a formula AxByCzD1-xyz [where A is **Pb**(**Mn1/3Nb2/3**)**O3**, B is **Pb**(Ni1 ...
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Piezoelectric ceramic composition and piezoelectric device
M Hirose, T Azuma, Y Niwa, M Abe - US Patent App. 10/559,740, 2004 - Google Patents
... In the case where Mn is included as an additive, in relation to **Pb** [((**Mn1/3Nb2/3**)xTiyZrz]**O3** in formula (1 ... [0045] In addition, **SiO2** may be included as an ...
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Piezoelectric ceramic composition and manufacturing the same, and piezoelectric element
T Azuma, M Hirose - US Patent App. 10/949,742, 2004 - Google Patents
... There are provided steps of polarizing a ceramic composi- tion including a perovskite compound containing **Pb**, Zr, Ti ... Pba[(**Mn1/3Nb2/3**)xTiy2rl]**03** Sample No ...
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Piezoelectric paste and piezoelectric film and piezoelectric part using the same
T Kubota - US Patent 6,355,185, 2002 - Google Patents
... Type PbO TiO2 ZrO2 **SiO2** parts by weight parts by weight a-1 62.9 ... a Zr/Ti ratio of 0.52/ 0.48, ie, a composition represented by **Pb**(Zr0 52Ti0 48)**O3**, 30 was ...
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Resonator
T Azuma, M Hirose, A Suzuki, K Taniwaki - US Patent App. 11/397,952, 2006 - Google Patents
... [0059] The quantity a representing the **Pb** content is pref ... 0.005 to 0.15 wt % with respect to the main component, especially Pba**[(Mn1/3Nb2/3)**xTiyZrz**]O3**. ...
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Method of making lead zirconate titanate-based ceramic powder, piezoelectric ceramic and method for ...
K Nada, K Okada, M Kida - US Patent App. 10/240,845, 2002 - Google Patents
... may be replaced with Sr, Ba, La, Ca, or the like, or **SiO2**, A12O3, or ... oxide, for example, a **Pb**(Mg1/3Nb2/3)(Zr,Ti)**O3**- based ceramic, a **Pb(Mn1/3Nb2/3)**(Zr,Ti ...
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Microstructure and Electromechanical Properties in PMnN-PZT Ceramics Sintered at Different ...
LI Baoshan, ZHU Zhigang, LI Guorong, D Aili - 材料科学技术学报(英文版), 2005 - scholar.ilib.cn
... Baoshan LI , Zhigang ZHU , Guorong **LI** , Aili DING The microstructure and piezoelectric properties of **Pb[**(Zr0.52Ti0.48)0.95(**Mn1/3Nb2/3**)0.05**]O3** (PMnN-PZT ...
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